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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

LIN, KENNY S

ART UNIT	PAPER NUMBER
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2154

DATE MAILED: 05/14/2004

22

Please find below and/or attached an Office communication concerning this application or proceeding.

22

Office Action Summary

Application No.

09/490,553

Applicant(s)

MORGAN ET AL.

Examiner

Kenny Lin

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-34 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-34 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1-34 are presented for examination. Claim 35 is canceled.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 8-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- a. The following terms lacks proper antecedence basis:

- i. the communication link - Claim 8, line 1 (i.e., it is unclear whether the term "the communication link" in claim 8 refers to line 5, "a local communication link", or line 10, "an Internet communication link", in claim 1. Correction is required.)

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-2, 4, 7-11, 13, 15-20, 22-24, 29, and 31-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cardillo, IV et al (hereinafter Cardillo), U.S. Patent 5,937,041, in view of Perlman et al (hereinafter Perlman), US 6,308,221.

6. Cardillo was cited in the previous office action.

7. As per claim 1, Cardillo taught the invention substantially as claimed including a system for providing Internet-related services in response to a handheld device without requiring the handheld device to itself be Internet-enabled, (col.1, lines 28-32, col.5, lines 47-67), comprising:

- a. A client module embedded in the handheld device to enable the handheld device to send a selected stored URL via a local communication link, wherein the URL indicates a desired Internet web page (col.2, lines 41-46, col.5, lines 61-64, col.6, lines 1-3, 10-27, 45-47, col.7, lines 1-12, it is inherently known that the request can be a URL for retrieving a web page);
- b. A receiver that receives the URL sent from the handheld device via the local communication link (col.6, lines 1-10, 17-19, col.7, lines 1-12);
- c. A web access module coupled to the receiver and to an external Internet via an Internet communication link different from said local communication link to access and retrieve the desired web page from a remote web server via the external Internet (col.6, lines 4-10, it is inherently known that server with Internet connectivity requires a web access module such as modem or Ethernet).

8. Cardillo did not specifically teach a render system being coupled to the web access module and physically separated from said handheld device, to render the retrieved web page in a human discernible format to a user on said render system. Perlman taught a render system being coupled to the web access module and physically separated from said handheld device (col.4, lines 26-38, 46-48), to render the retrieved web page in a human discernible format to a user on said render system (col.1, lines 43-45, col.4, lines 26-38, 55-65, col.8, lines 5-14). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Cardillo and Perlman because Perlman's teaching of using a render system separated from handheld device to display web pages enables Cardillo's system to browse and display web pages on a television set using a remote controller (col.1, lines 41-48).

9. As per claim 13, Cardillo taught the invention substantially as claimed including a system for providing an Internet-related service from a remote Internet-related server via an Internet communication link based on a URL indicated by a handheld device (col.1, lines 28-32, col.5, lines 47-67), comprising:

- a. A receiver module to receive the URL from the handheld device via the communication link (col.2, lines 41-46, col.5, lines 61-64, col.6, lines 1-27, 45-47, col.7, lines 1-12, it is inherently known that the request can be a URL for retrieving a web page);
- b. A web access module to access and retrieve the Internet-related service via the Internet communication link based on the URL (col.6, lines 4-10, it is inherently

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known that server with Internet connectivity requires a web access module such as modem or Ethernet).

10. Cardillo did not specifically teach a render module, coupled to the web access module and physically separated from the handheld device, to render the retrieved Internet-related service in a human discernible format to a user on the render module. Perlman taught a render module coupled to the web access module and physically separated from the handheld device (col.4, lines 26-38, 46-48), to render the retrieved Internet-related service in a human discernible format to a user on said render module (col.1, lines 43-45, col.4, lines 26-38, 55-65, col.8, lines 5-14). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Cardillo and Perlman because Perlman's teaching of using a render module separated from handheld device to access and display Internet-related services enables Cardillo's system to access and display email on a television set using a remote controller (col.1, lines 41-48).

11. As per claim 29, Cardillo taught the invention substantially as claimed including a mobile system capable of communicating with a gateway module, which comprise a web access module to access and retrieve an Internet-related service from a remote Internet-related server via an Internet communication link based on a URL (col.2, lines 41-46, col.5, lines 61-64, col.6, lines 4-10, it is inherently known that server with Internet connectivity requires a web access module such as modem or Ethernet), the mobile system comprising:

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- a. A client module to enable sending the URL via a communication link to the gateway module for use in the access and retrieval of the Internet-related service (col.2, lines 41-46, col.5, lines 61-64, col.6, lines 1-3, 10-27, 45-47, col.7, lines 1-12, it is inherently known that the request can be a URL for retrieving a web page).

12. Cardillo did not specifically teach a render module to receive the retrieved Internet-related service, wherein the gateway module communicates the retrieved Internet-related service with the rendering module, which is physically separated from the mobile system, and is configured to render the retrieved Internet-related service in a human discernible format to a user on the rendering module. Perlman taught a render module to receive the retrieved Internet-related service wherein the gateway module communicates the retrieved Internet-related service with the rendering module (col.4, lines 26-38, 55-65, col.8, lines 5-14), which is physically separated from the mobile system (col.4, lines 26-38, 46-48), and is configured to render the retrieved Internet-related service in a human discernible format to a user on the rendering module (col.1, lines 43-45, col.4, lines 26-38, 55-65, col.8, lines 5-14). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Cardillo and Perlman because Perlman's teaching of using a render module separated from mobile device to access and display Internet-related services enables Cardillo's system to access and display email on a television set using a remote controller (col.1, lines 41-48).

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13. As per claim 32, Cardillo taught the invention substantially as claimed including a gateway system capable of receiving a communication including URL via a communication link from a mobile system (col.2, lines 41-46, col.5, lines 61-64, col.6, lines 1-3, 10-27, 45-47, col.7, lines 1-12, it is inherently known that the request can be a URL for retrieving a web page), said gateway system comprising:

- a. A communication module to receive the communication from mobile system (col.6, lines 1-27, 45-47, col.7, lines 1-12);
- b. A web access module to access and retrieve an Internet-related service from a remote Internet-related server via an Internet communication link based on the URL (col.6, lines 4-10, it is inherently known that server with Internet connectivity requires a web access module such as modem or Ethernet).

14. Cardillo did not specifically teach a render module to receive the retrieved Internet-related service from the web access module, said render module being physically separated from said mobile system and configured to render the retrieved Internet-related service in a human discernible format to a user on the render module. Perlman taught a render module to receive the retrieved Internet-related service from the web access module (col.4, lines 26-38, 55-65, col.8, lines 5-14), said render module being physically separated from said mobile system (col.4, lines 26-38, 46-48) and configured to render the retrieved Internet-related service in a human discernible format to a user on the render module (col.1, lines 43-45, col.4, lines 26-38, 55-65, col.8, lines 5-14). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Cardillo and Perlman because Perlman's

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teaching of using a render module separated from mobile system to access and display Internet-related services enables Cardillo's system to access and display email on a television set using a remote controller (col.1, lines 41-48).

15. As per claim 2, Cardillo and Perlman taught the invention substantially as claimed in claim 1. Cardillo further taught that the handheld device fits into a user's palm (palm PDA, col.1, lines 28-32, col.2, lines 28-31).

16. As per claims 4 and 33, Cardillo and Perlman taught the invention substantially as claimed in claims 1 and 32. Cardillo further taught a communication module in the handheld device that receives the URL from a remote site via a second communication link coupled to the communication module (col.6, lines 24-36, it is inherently known that data received from the NAV can include URL).

17. As per claims 7 and 34, Cardillo and Perlman taught the invention substantially as claimed in claims 1 and 33. Perlman further taught that the receiver, the web access module, and the render system all physically reside within a single enclosure separate from the handheld device (col.4, lines 26-31). It would have been obvious to one of ordinary skill in the art at the time the invention was made combine the teachings of Cardillo and Perlman and to build the receiver, the web access module and the render system in Cardillo's system within a single enclosure separate from the handheld device as a single unit to save space.

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18. As per claims 8-9 and 17-18, Cardillo and Perlman taught the invention substantially as claimed in claims 1 and 13. Perlman further taught that the communication link is a wireless communication link and is selected from a group of communication links consisting of: an infrared communication link or other equivalent modes (col.4, lines 46-52). Cardillo and Perlman did not specifically teach that the wireless communication link is selected from a group of communication links consisting of: a radio frequency communication link, a microwave communication link, a laser communication link, and combination thereof. However, it would have been obvious for one of ordinary skill in the art to implement different types or combinations of these listed communication links as the wireless communication link. Furthermore, one of ordinary skill in the art would have been motivated to select types of wireless communication links according to the users' needs or cost of implementation to provide better mobility. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Cardillo and Perlman because Perlman's teaching of using various types or the combination of wireless communication link eliminates the needs for using physical cables and fully advance the mobility of Cardillo's handheld devices.

19. As per claims 10-11 and 15-16, Cardillo and Perlman taught the invention substantially as claimed in claims 1 and 13. Cardillo further taught that the web access module communicates with the remote web server via the Internet communication link using an open standard communication protocol such as HTTP (col.3, lines 4-16, col.7, lines 1-12).

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20. As per claim 19, Cardillo and Perlman taught the invention substantially as claimed in claim 1. Cardillo further taught wherein the web access module comprises a web browser without a rendering function (col.6, lines 4-16, col.7, lines 1-26).

21. As per claim 20, Cardillo and Perlman taught the invention substantially as claimed in claim 1. Cardillo further taught that the rendering system is a device-specific rendering system (col.4, lines 37-41, col.7, lines 13-18, 28-43).

22. As per claim 22, Cardillo and Perlman taught the invention substantially as claimed in claim 1. Cardillo further taught that the handheld device is a pager (col.1, lines 28-32, col.2, lines 28-31).

23. As per claims 23, Cardillo and Perlman taught the invention substantially as claimed in claim 1. Cardillo further taught that the client module does not have Internet access function and does not include an Internet web browser application program or provide any direct connectivity to the Internet (col.4, lines 46-57, col.5, lines 50-57, fig.2).

24. As per claims 24, Cardillo and Perlman taught the invention substantially as claimed in claim 1. Cardillo further taught that the client module has Internet access function and include an Internet web browser, but neither the Internet access function nor the Internet web browser are utilized to send the URL via the local communication link (col.2, lines 24-47).

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25. As per claims 31, Cardillo and Perlman taught the invention substantially as claimed in claim 30. Cardillo further taught a communication module in the handheld device that receives the URL from a remote site via a second communication link coupled to the communication module (col.6, lines 24-27, it is inherently known that data received from the data center can include URL).

26. Claims 3, 5-6, 12, 14, 21, 25-28 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cardillo and Perlman as applied to claims 1, 4, 13 and 29 above, and further in view of "Official Notice".

27. As per claims 3 and 30, Cardillo and Perlman taught the invention substantially as claimed in claims 1 and 29. Cardillo further taught that the client device can store data (col.6, lines 24-27). Cardillo and Perlman did not specifically teach to further comprising a memory coupled with the handheld device to store at least one URL, wherein the URL sent is selected from the at least one URL. However, it is well known in the art that many handheld devices contain memory to store data. For example, memory are provided in cell phones to store phone and contact information. Official Notice is taken that it would have been obvious to store data such as URL in a handheld device to bookmark web pages. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Cardillo, Perlman and further provide memory to the handheld device to store URL for user to bookmark desired web pages.

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28. As per claim 5, Cardillo and Perlman taught the invention substantially as claimed in claim 4. Cardillo and Perlman did not specifically teach that the second communication link is a link to a wireless network. However, Official Notice is taken that it would have been obvious to use link to a wireless network for portable devices. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the second communication link linking to a wireless network in Cardillo and Perlman's system to provide wireless communication for portable device and reduce the need of physical connection.

29. As per claims 6 and 21, Cardillo and Perlman taught the invention substantially as claimed in claim 1. Cardillo further taught that the handheld device is selected from a group of devices consisting of: a pager device, a cellular phone device, a personal organizer device, and a palm pilot device (col.1, lines 28-32, col.2, lines 24-31). Cardillo and Perlman did not specifically teach that the handheld device consisting of a watch device and an information appliance device. However, many different portable devices can be selected and used in Cardillo and Perlman's system. It would have been a design choice to pick and select all suitable handheld devices usable in the taught invention. Official Notice is taken that the limitations narrowed by these claims are consider obvious and furthermore a matter of design choice. It would have been obvious to one of ordinary skill in the art at the time the invention was made to select any suitable handheld devices as the handheld device taught by Cardillo and Perlman so to enable users of different types of handheld devices to have the ability to access and communicate with the web access module taught in Cardillo and Perlman's system and retrieve web page contents.

30. As per claims 12, 14 and 27-28, Cardillo and Perlman taught the invention substantially as claimed in claims 1 and 13. Perlman further taught did not specifically teach that the render system further comprises at least one render system selected from a group of systems consisting of: a display system, a user interface display system, an audio/video player system, a Web television system, and a combination thereof (col.4, lines 26-38, 55-65, col.8, lines 5-14).

Cardillo and Perlman did not specifically teach that the render system further comprises at least one render system selected from a group of systems consisting of: a printer system, a display system, a projection display system, a user interface display system, an audio/video player system, a Web television system, and a combination thereof. However, Official Notice is taken that the limitations narrowed by these claims are consider obvious and furthermore a matter of design choice. It would have been obvious to select different types or combinations of outputting systems as the rendering system according to different needs. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Cardillo, Perlman and a use of outputting systems of any type or combination of types as the rendering system to display or print the desired contents to provide the users' different needs (i.e. presentations, reports).

31. As per claim 25, Cardillo and Perlman taught the invention substantially as claimed in claim 1. Cardillo and Perlman did not specifically teach wherein only the URL is communicated, and the URL is communicated by sending only a few bytes of data. However, Official Notice is taken that it would have been obvious that URL can be communicated by

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sending only a few bytes of data since URLs are relatively small in size. It would have been obvious to one of ordinary skill in the art at the time the invention was made to communicate the URL by sending only a few bytes of data since URL is known to be small in size for transmission.

32. As per claim 26, Cardillo and Perlman taught the invention substantially as claimed in claim 1. Cardillo and Perlman did not specifically teach that the URL is in the actual URL form or embedded in a hyperlink. However, Official Notice is taken that it would have been obvious to one of ordinary skill in the art to recognize that the URL is in the actual form or embedded in a hyperlink since they are the most common formats. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide URL in the actual URL form or embedded in a hyperlink to Cardillo and Perlman's system since they are widely used in the art.

Response to Arguments

33. Applicant's arguments with respect to claims 1-34 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

34. A shortened statutory period for reply to this Office action is set to expire THREE MONTHS from the mailing date of this action.

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35. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenny Lin whose telephone number is (703)305-0438. The examiner can normally be reached on 8 AM to 5 PM Tuesday to Friday and every other Monday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (703)305-8498. Additionally, the fax numbers for Group 2100 are as follows:

Official Responses: (703) 872-9306

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-6121.

ksl
May 5, 2004


ZARNI MAUNG
PRIMARY EXAMINER